

ip.buffer

Smart Telemetry for the Environment



Standard Enclosure



N4X Enclosure

The Scannex ip.buffer range provides a powerful and cost effective solution for the collection of any ASCII or binary data from serial and IP sources. It is offered by OceanWise to meet the specific needs of the most demanding marine applications.

The ip.buffer has an extensive range of data delivery options using industry standard Internet TCP/IP protocols. A large non-volatile flash memory enables the ip.buffer to reliably store, monitor and manage a wide range of oceanographic and other sensors.

The ip.buffer was developed by leading telecommunications technology provider Scannex, and adapted to the marine environment with the help of OceanWise. Modifications include lower power consumption and programmable data acquisition.

Bidirectional communication, encryption, and user authentication provide a safe method for remote device administration.

Key Benefits

- Proven technology from the telecommunications industry
- Tested in marine and other harsh environments
- Reliable communication and buffering provides zero, or minimal, data loss
- Acquires data from multiple IP and serial based sources
- Available in one and four port versions with a wide range of storage options
- Acquires data directly from a wide range of oceanographic sensors
- Works with OceanWise recommended Mobile to Mobile VPN
- Configured to work seamlessly with OceanWise's Environmental Data Sharing and Publishing solutions

Secure, Flexible, and Cost Effective Telemetry for Marine Applications

	ip.1-32	ip.4-128	ip.4-128.g.N4X
Data Collection & Storage			
Serial Data Collection Ports	1	4	4
TCP/IP, Telnet, FTP, UDP, SNMP Traps, Syslog, RADIUS	√	√	√
Multi-homing	√	√	√
Record Time-Stamping	√	√	√
Flash Memory Size (10 year retention)	32Mb	128Mb	128Mb
Memory Storage Channels	1	4	4
Dynamic Memory Allocation Between Channels	-	√	√
Data Delivery Options			
Real-Time TCP/IP (Client & Server)	√	√	√
FTP Server, FTP Push, SFTP/SSH Push	√	√	√
Email (Triggered)	√	√	√
HTTP post to standard web server	√	√	√
Internal scheduler for FTP/HTTP/Email (per channel)	√	√	√
SSL Encrypted Connections for all delivery methods	√	√	√
z-lib Data Compression on Delivery (FTP, HTTP, Email)	√	√	√
Modem Delivery across Internet (all delivery methods)	modem optional	modem optional	√
Scripting Engine			
Scripted Alarm and Fault Detection	√	√	√
Filtering & Modification of Data	√	√	√
Scripted Device Protocols	√	√	√
Management & Security			
Web Server (http:// & https://) for Configuration	√	√	√
RADIUS authentication	√	√	√
Pass-Through for administration of devices	√	√	√
SNMP Agent	√	√	√
Syslog output and Audit Log	√	√	√
Remote Fail-Safe Firmware Upgrades	√	√	√
CHAP/PPP Modem Dial-In	modem optional	modem optional	CSD (if available)
Real-Time-Clock (battery backed) with SNTP & DST	√	√	√
Centrally managed using HTTP web server	√	√	√
Alerts			
Source Connect/Disconnect (COM & TCP) & Data Quiet	√	√	√
Percentage Full alarms	√	√	√
Comfort, Reboot, Config & Authentication	√	√	√
Temperature (upper & lower limits)	-	√	√
SNMP Traps (compatible with HP OpenView)	√	√	√
Installation Features			
Auto Pin, Baud, and Protocol Setup on Serial Ports	√	√	Baud & Protocol
Auto cross-over, Full/Half Duplex on 10/100 Ethernet	√	√	√
Network Configuration Tool	√	√	√
Options			
Internal 33.6k Global Modem	ip.1-32.m	ip.4-128.m	n/a
GPRS Quad-Band Modem	ip.1-32.g	ip.4-128.g	ip.4-128.g.N4X
Isolated -48 VDC Supply	n/a	ip.4-128-48	n/a
General			
2 Hour Battery Back-Up (Batteries not supplied)	√	√	n/a
Casing	Plastic	Metal	Metal N4X
Mounting Options	DIN-Rail & Tie-Wrap	Rack-Mount	Wall Mount
Kit Includes All Cables, Adaptors & PSU	√	√	√